

Analytical Laboratory Instrument Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
Economics and Statistics Administration
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CONTENTS

Introduction to the Economic Census	v
Manufacturing	ix

Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002	2
3. Detailed Statistics by Industry: 2002	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002	5
6a. Products Statistics: 2002 and 1997	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	--
7. Materials Consumed by Kind: 2002 and 1997.....	8

Appendixes

A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997	F-1

-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
334516, Analytical laboratory instrument manufacturing	2002.. 516	563	33 842	1 981 178	10 871	21 561	423 816	5 126 453	3 178 412	8 284 910	260 003
	2001.. N	N	37 050	2 124 888	12 899	25 461	485 653	4 723 085	3 551 125	8 350 423	315 203
	2000.. N	N	35 914	1 880 064	12 836	25 858	468 245	4 730 303	3 092 046	7 779 121	303 470
	1999.. N	N	36 113	1 784 706	13 126	27 000	454 358	4 715 001	2 775 193	7 509 390	305 732
	1998.. N	N	36 278	1 767 898	13 075	26 526	512 555	4 480 606	2 689 605	7 201 507	329 347
	1997.. 637	677	36 820	1 728 708	13 660	27 460	495 787	4 111 184	2 752 613	6 899 852	207 449

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
334516, Analytical laboratory instrument manufacturing												
United States	—	563	202	33 842	1 981 178	10 871	21 561	423 816	5 126 453	3 178 412	8 284 910	260 003
Arizona	—	9	3	225	10 676	108	197	3 641	33 336	18 178	50 238	1 355
California	—	121	45	11 111	752 308	3 008	6 213	142 235	2 167 774	1 438 110	3 591 025	118 669
Colorado	1	18	7	1 022	52 856	374	735	13 890	131 405	70 986	200 948	5 327
Connecticut	—	13	4	1 457	76 272	540	883	18 392	74 548	116 861	224 573	897
Florida	—	24	9	1 092	48 057	583	1 022	19 703	243 375	144 374	391 495	4 556
Georgia	2	6	3	339	14 497	190	393	6 006	40 793	15 222	55 283	2 492
Illinois	—	16	6	480	22 839	142	306	4 861	77 491	44 689	123 067	1 743
Kentucky	—	4	3	131	5 200	38	79	866	10 841	11 721	22 488	518
Maryland	—	12	4	311	12 624	145	293	3 444	38 635	55 134	86 225	9 988
Massachusetts	—	42	15	3 467	238 311	852	1 814	35 432	721 527	270 517	990 133	42 882
Michigan	—	15	4	1 242	58 830	504	989	16 271	150 156	61 960	214 247	5 630
Minnesota	—	10	6	1 051	62 486	495	910	24 056	236 898	91 561	329 478	6 436
Missouri	4	7	2	111	5 694	48	89	1 620	15 835	7 654	23 489	1 021
Nevada	4	4	3	147	6 665	55	100	1 761	12 750	5 696	18 858	912
New Hampshire	—	8	4	243	12 330	92	183	3 136	25 466	9 302	34 876	1 075
New Jersey	2	23	10	1 207	74 412	381	760	13 378	163 746	122 313	286 101	8 640
New York	1	26	6	653	32 501	295	528	9 009	62 272	45 313	110 235	2 187
North Carolina	1	11	2	290	17 950	110	226	7 191	37 853	20 447	58 202	592
Ohio	3	21	5	599	26 173	256	562	7 046	60 109	34 157	93 335	2 492
Oregon	—	9	4	390	18 058	175	285	4 444	34 758	19 013	54 917	576
Pennsylvania	—	32	13	1 472	69 107	649	1 234	19 156	140 828	151 709	292 608	10 280
Tennessee	—	5	3	275	16 711	130	238	6 284	31 635	9 900	41 511	514
Texas	—	39	14	3 184	170 320	918	1 979	32 555	273 577	199 880	447 510	10 970
Utah	1	8	4	232	13 131	81	162	2 935	31 188	14 932	46 079	1 366
Virginia	2	8	2	112	4 661	24	49	1 099	6 115	10 266	17 584	278
Washington	1	14	4	243	14 165	63	121	2 786	16 298	26 422	41 301	1 879
Wisconsin	—	11	6	1 035	54 542	267	497	9 658	153 644	88 295	231 686	6 548

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
334516, Analytical laboratory instrument manufacturing	
Companies ¹	number.. 516
All establishments ²	number.. 563
Establishments with 1 to 19 employees	number.. 361
Establishments with 20 to 99 employees	number.. 132
Establishments with 100 employees or more	number.. 70
All employees ³	number.. 33 842
Total compensation	\$1,000.. 2 436 787
Annual payroll	\$1,000.. 1 981 178
Total fringe benefits	\$1,000.. 455 609
Production workers, average for year	number.. 10 871
Production workers on March 12	number.. 10 937
Production workers on May 12	number.. 10 956
Production workers on August 12	number.. 10 925
Production workers on November 12	number.. 10 633
Production worker hours	1,000.. 21 561
Production worker wages	\$1,000.. 423 816
Total cost of materials	\$1,000.. 3 178 412
Materials, parts, containers, packaging, etc., used	\$1,000.. 2 698 724
Resales	\$1,000.. 413 218
Purchased fuels	\$1,000.. 7 389
Purchased electricity	\$1,000.. 27 439
Contract work	\$1,000.. 31 642
Quantity of electricity purchased for heat and power	1,000 kWh.. 357 729
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 8 284 910
Primary products value of shipments	\$1,000.. 6 542 165
Secondary products value of shipments	\$1,000.. 773 753
Total miscellaneous receipts	\$1,000.. 968 992
Value of resales	\$1,000.. 696 280
Contract receipts	\$1,000.. 8 679
Other miscellaneous receipts	\$1,000.. 264 033
Primary products specialization ratio	percent.. 89
Value of primary products shipments made in all industries	\$1,000.. 7 117 685
Value of primary products shipments made in this industry	\$1,000.. 6 542 165
Value of primary products shipments made in other industries	\$1,000.. 575 520
Coverage ratio	percent.. 92
Value added	\$1,000.. 5 126 453
Total inventories, beginning of year	\$1,000.. 1 239 162
Finished goods inventories	\$1,000.. 341 731
Work-in-process inventories	\$1,000.. 165 637
Materials and supplies inventories	\$1,000.. 731 794
Total inventories, end of year	\$1,000.. 1 127 286
Finished goods inventories	\$1,000.. 377 763
Work-in-process inventories	\$1,000.. 149 560
Materials and supplies inventories	\$1,000.. 599 963
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 2 334 394
Total capital expenditures (new and used)	\$1,000.. 260 003
Buildings and other structures (new and used)	\$1,000.. 57 359
Machinery and equipment (new and used)	\$1,000.. 202 644
Automobiles, trucks, etc., for highway use	\$1,000.. 5 933
Computers and peripheral data processing equipment	\$1,000.. 31 689
All other expenditures for machinery and equipment	\$1,000.. 165 022
Total retirements	\$1,000.. 134 455
Gross value of depreciable assets at end of year	\$1,000.. 2 459 942
Depreciation charges during year	\$1,000.. 194 554
Total rental payments	\$1,000.. 93 532
Buildings and other structures	\$1,000.. 72 106
Machinery and equipment	\$1,000.. 21 426
Total other expenses ⁴	\$1,000.. 579 694
Response coverage ratio ⁵	percent.. 71
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 32 162
Communications services ⁴	\$1,000.. 27 101
Legal services ⁴	\$1,000.. 17 611
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 5 489
Advertising and promotional services ⁴	\$1,000.. 41 717
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 14 020
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 4 342
Management consulting and administrative services ⁴	\$1,000.. 45 647
Taxes and license fees ⁴	\$1,000.. 22 080
All other expenses ⁴	\$1,000.. 369 524

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
334516, Analytical laboratory instrument manufacturing											
All establishments	—	563	33 842	1 981 178	10 871	21 561	423 816	5 126 453	3 178 412	8 284 910	260 003
Establishments with—											
1 to 4 employees	9	211	437	21 117	221	391	6 402	45 436	26 628	72 332	2 862
5 to 9 employees	8	76	515	29 733	204	405	7 330	63 896	38 431	102 075	4 170
10 to 19 employees	5	74	998	56 131	438	838	16 730	123 201	57 615	180 117	6 115
20 to 49 employees	2	73	2 307	117 327	949	1 854	34 282	275 703	139 293	411 012	12 258
50 to 99 employees	—	59	4 218	217 957	1 723	3 224	62 412	553 865	320 788	874 959	21 703
100 to 249 employees	—	40	6 069	314 760	2 302	4 867	79 278	819 734	590 354	1 396 958	44 987
250 to 499 employees	—	15	5 542	352 033	1 894	3 609	75 242	971 187	537 765	1 508 692	29 957
500 to 999 employees	—	11	7 437	470 355	1 572	3 310	63 480	1 283 981	552 346	1 824 170	D
1,000 to 2,499 employees	—	4	6 319	401 765	1 568	3 063	78 660	989 450	915 192	1 914 595	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	284	1 119	61 024	482	937	15 900	131 926	77 461	209 388	8 954

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
334516	Analytical laboratory instrument manufacturing	563	33 842	1 981 178	10 871	21 561	423 816	5 126 453	3 178 412	8 284 910	260 003
3345160	Analytical and scientific instruments, except optical	563	33 842	1 981 178	10 871	21 561	423 816	5 126 453	3 178 412	8 284 910	260 003

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
334516	Analytical laboratory instrument manufacturing	2002.. N	X	X	7 117 685
	1997.. N	N	X	X	6 140 026
3345160	Analytical and scientific instruments, except optical	2002.. N	X	X	7 117 685
	1997.. N	N	X	X	6 140 026
33451601	Analytical and scientific instruments, except optical	2002.. N	X	X	6 788 909
	1997.. N	N	X	X	5 821 114
3345160100	Analytical and scientific instruments, except optical ¹	2002.. 241	X	X	6 788 909
	1997.. 341	N	X	X	5 821 114
3345160Y	Analytical and scientific instruments, except optical, nsk, total	2002.. N	X	X	328 776
	1997.. N	N	X	X	318 912
3345160YWW	Analytical and scientific instruments, except optical, nsk, for nonadministrative-record establishments	2002.. N	X	X	139 034
	1997.. N	N	X	X	165 499
3345160YWY	Analytical and scientific instruments, except optical, nsk, for administrative-record establishments	2002.. N	X	X	189 742
	1997.. N	N	X	X	153 413

¹For additional detail, see Current Industrial Report MA334B, Selected Instruments and Related Products.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
334516	Analytical laboratory instrument manufacturing		
00900001	Total materials .....2002..	X	2 698 724
	.....1997..	X	2 261 395
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	48 717
	.....1997..	X	68 509
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	84 448
	.....1997..	X	185 463
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	36 734
	.....1997..	X	49 929
33441400	Capacitors for electronic circuitry .....2002..	X	10 363
	.....1997..	X	13 279
33441500	Resistors for electronic circuitry .....2002..	X	3 362
	.....1997..	X	12 194
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	55 564
	.....1997..	X	67 363
33593101	Current-carrying wiring devices .....2002..	X	80 328
	.....1997..	X	48 521
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	33 491
	.....1997..	X	53 066
33411001	Electronic computer equipment .....2002..	X	55 786
	.....1997..	X	N
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	D
	.....1997..	X	D
33451503	All other miscellaneous electrical measuring instruments and parts .....2002..	X	32 159
	.....1997..	X	132 380
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	9 960
	.....1997..	X	D
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting) .....2002..	X	57 862
	.....1997..	X	112 179
332000A9	Sheet metal products (excluding stampings) .....2002..	X	50 518
	.....1997..	X	110 765
332000AC	Metal stampings .....2002..	X	5 885
	.....1997..	X	9 464
332000AE	Other fabricated metal products (excluding forgings) .....2002..	X	55 986
	.....1997..	X	146 195
33210000	Forgings .....2002..	X	D
	.....1997..	X	N
33100035	Castings, rough and semifinished .....2002..	X	6 614
	.....1997..	X	29 880
33100033	Metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	18 946
	.....1997..	X	39 135
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	6 689
	.....1997..	X	N
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	4 989
	.....1997..	X	N
33100076	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 476
	.....1997..	X	N
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	527
	.....1997..	X	N
32720003	Glass and glass products (excluding windows and mirrors) .....2002..	X	9 717
	.....1997..	X	63 104
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	10 578
	.....1997..	X	N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	9 989
	.....1997..	X	N
33331401	Optical instruments and lenses (excluding sighting, tracking, and fire control) .....2002..	X	40 904
	.....1997..	X	N
33422001	Electronic communication equipment .....2002..	X	D
	.....1997..	X	N
33531211	Fractional horsepower electric motors (less than 1 hp) .....2002..	X	11 206
	.....1997..	X	N
33441900	Liquid crystal display screens (LCD), including LED .....2002..	X	4 763
	.....1997..	X	N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	17 531
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	900 088
	.....1997..	X	521 138
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	970 652
	.....1997..	X	490 053

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.